

2021-02-11

**REQUEST FOR QUOTATION
 AFRICA PAVILION – WASHROOM UPGRADES
 TZC T 02-2021-01
 ADDENDUM #3**

This addendum shall be incorporated into, and form part of TZC T 02-2021-01 and take precedence over all requirements of the previously issued bid documents including plans. This addendum must be signed by the bidder (signing officer) in the appropriate space and must be attached to the Form for submission by the bidder. This Addendum consists of two (2) pages.

1. ADD SPECIFICATIONS:

SECTION NUMBER	SHEET NAME	ISSUE DATE
03 30 00	CAST-IN-PLACE CONCRETE	2021-02-11

2. DELETE DRAWINGS:

SHEET NUMBER	SHEET NAME	ISSUE DATE
A002	SCHEDULES	2021-01-25
M102	MECHANICAL DETAILS, LEGEND AND DRAWING LIST	2021-01-25
M203	AFRICAN PAVILION PLUMBING AND HVAC MODIFICATION	2021-01-25
E-2.0	ELECTRICAL PLAN BUILDING	2021-01-25
E-7.1	ELECTRICAL SINGLE LINE DIAGRAM	2021-01-25

REPLACE WITH DRAWINGS:

SHEET NUMBER	SHEET NAME	ISSUE DATE
A002	SCHEDULES	2021-02-02
M102	MECHANICAL DETAILS, LEGEND AND DRAWING LIST	2021-02-04
M203	AFRICAN PAVILION PLUMBING AND HVAC MODIFICATION	2021-02-04
E-2.0	ELECTRICAL PLAN BUILDING	2021-02-03
E-7.1	ELECTRICAL SINGLE LINE DIAGRAM	2021-02-03

3. Question:

Please confirm if the floor slab is suspended construction or slab on grade construction.

Answer:

The floor is slab on grade.

4. Question:

Please provide a detail on the requirements for patching the concrete floor after the below grade plumbing work has been completed.

Answer:

Please referenced attached specification.

5. Question:

Please provide a standard for the replacement of concrete. (compressive strength, if bagged pre-mix material is permitted or if ready-mix is required).

Answer:

Please referenced attached specification.

Receipt of the Addendum shall be acknowledged as part of your submission.

The Board of Management of the Toronto Zoo reserves the right to reject any or all Tenders or to accept any quotation, should it deem such action to be in its interests.

If you have any queries regarding this matter, please contact Mr. Peter Vasilopoulos, Supervisor, Purchasing & Supply, at 416-392-5916 or by email pvasilopoulos@torontozoo.ca.

Yours truly,

Peter Vasilopoulos
Supervisor, Purchasing & Supply

I/we hereby acknowledge receipt of this addendum and make allowance in my bid.

Signed (Must be Signing Officer of Firm)

Name of Firm

Date:

Part 1 General

1.1 REFERENCES

- .1 Abbreviations and Acronyms:
 - .1 Cement: hydraulic cement or blended hydraulic cement (XXb - where b denotes blended).
 - .1 Type GU or GUb - General use cement.
 - .2 Type MS or MSb - Moderate sulphate-resistant cement.
 - .3 Type MH or MHb - Moderate heat of hydration cement.
 - .4 Type HE or Heb - High early-strength cement.
 - .5 Type LH or LHb - Low heat of hydration cement.
 - .6 Type HS or HSb - High sulphate-resistant cement.
 - .2 Fly ash:
 - .1 Type F - with CaO content less than 8%.
 - .2 Type CI - with CaO content ranging from 8 to 20%.
 - .3 Type CH - with CaO greater than 20%.
 - .3 GGBFS - Ground, granulated blast-furnace slag.
- .2 Reference Standards:
 - .1 ASTM International
 - .1 ASTM C260-Latest Edition, Standard Specification for Air-Entraining Admixtures for Concrete.
 - .2 ASTM C309- Latest Edition, Standard Specification for Liquid Membrane-Forming Compounds for Curing Concrete.
 - .3 ASTM C494/C494M- Latest Edition, Standard Specification for Chemical Admixtures for Concrete.
 - .4 ASTM C1017/C1017M- Latest Edition, Standard Specification for Chemical Admixtures for Use in Producing Flowing Concrete.
 - .5 ASTM D412- Latest Edition, Standard Test Methods for Vulcanized Rubber and Thermoplastic Elastomers-Tension.
 - .6 ASTM D624- Latest Edition, Standard Test Method for Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomer.
 - .7 ASTM D1751- Latest Edition, Standard Specification for Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Nonextruding and Resilient Bituminous Types).
 - .8 ASTM D1752- Latest Edition, Standard Specification for Preformed Sponge Rubber Cork and Recycled PVC Expansion Joint Fillers for Concrete Paving and Structural Construction.
 - .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-37.2- Latest Edition, Emulsified Asphalt, Mineral Colloid-Type, Unfilled, for Dampproofing and Waterproofing and for Roof Coatings.

- .2 CAN/CGSB-51.34- Latest Edition, Vapour Barrier, Polyethylene Sheet for Use in Building Construction.
- .3 CSA International
 - .1 CSA A23.1/A23.2- Latest Edition, Concrete Materials and Methods of Concrete Construction/Methods of Test and Standard Practices for Concrete.
 - .2 CSA A283- Latest Edition, Qualification Code for Concrete Testing Laboratories.
 - .3 CSA A3000- Latest Edition, Cementitious Materials Compendium (Consists of A3001, A3002, A3003, A3004 and A3005).

1.2 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Provide testing, inspection results and reports for review by Consultant and do not proceed without written approval when deviations from mix design or parameters are found.
- .3 Concrete pours: provide accurate records of poured concrete items indicating date and location of pour, quality, air temperature and test samples taken as described in PART 3 - FIELD QUALITY CONTROL.
- .4 Concrete hauling time: provide for review by Consultant deviations exceeding maximum allowable time of 120 minutes for concrete to be delivered to site of Work and discharged after batching.

1.3 QUALITY ASSURANCE

- .1 Quality Assurance: in accordance with Section 01 45 00 - Quality Control.
- .2 Provide Consultant, minimum 2 weeks prior to starting concrete work, with valid and recognized certificate from plant delivering concrete.
 - .1 Provide test data and certification by qualified independent inspection and testing laboratory that materials and mix designs used in concrete mixture will meet specified requirements.
- .3 Minimum 2 weeks prior to starting concrete work, provide proposed quality control procedures for review by Consultant on following items:
 - .1 Falsework erection.
 - .2 Hot weather concrete.
 - .3 Curing.
 - .4 Finishes.
 - .5 Formwork removal.
 - .6 Joints.

1.4 DELIVERY, STORAGE AND HANDLING

- .1 Delivery and Acceptance Requirements:

- .1 Concrete hauling time: deliver to site of Work and discharged within 120 minutes maximum after batching.
 - .1 Do not modify maximum time limit without receipt of prior written agreement from laboratory representative and concrete producer as described in CSA A23.1/A23.2.
 - .2 Deviations to be submitted for review by Consultant.
- .2 Concrete delivery: ensure continuous concrete delivery from plant meets CSA A23.1/A23.2.
- .2 Packaging Waste Management: remove for reuse and return by manufacturer of pallets, crates, padding, and packaging materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

Part 2 Products

2.1 DESIGN CRITERIA

- .1 Alternative 1 - Performance : to CSA A23.1/A23.2, and as described in MIXES of PART 2 - PRODUCTS.

2.2 PERFORMANCE CRITERIA

- .1 Quality Control Plan: ensure concrete supplier meets performance criteria of concrete as established by Consultant and provide verification of compliance as described in PART 1 - QUALITY ASSURANCE.

2.3 MATERIALS

- .1 Cement: to CSA A3001, Type GU.
- .2 Blended hydraulic cement: Type GUB to CSA A3001.
- .3 Supplementary cementing materials: with minimum 20% Type S, by mass of total cementitious materials to CSA A3001.
- .4 Water: to CSA A23.1.
- .5 Aggregates: to CSA A23.1/A23.2.
- .6 Admixtures:
 - .1 Air entraining admixture: to ASTM C260.
 - .2 Chemical admixture: to ASTM C494 and ASTM C1017. Consultant to approve accelerating or set retarding admixtures during cold and hot weather placing.
 - .3 Corrosion-inhibiting admixture: to ASTM G180.
 - .4 Lithium-based admixture: to ASTM C494.
- .7 Shrinkage compensating grout: premixed compound consisting of non-metallic aggregate, Portland cement, water reducing and plasticizing agents to CSA A23.1/A23.2.
 - .1 Compressive strength: 50MPa at 28 days.

- .8 Non premixed dry pack grout: composition of non metallic aggregate Portland cement with sufficient water for mixture to retain its shape when made into ball by hand and capable of developing compressive strength of 50 MPa at 28 days.
- .9 Curing compound: to CSA A23.1/A23.2 white and ASTM C309, Type 1-chlorinated rubber.
- .10 Premoulded joint fillers:
 - .1 Bituminous impregnated fiber board: to ASTM D1751.
 - .2 Sponge rubber: to ASTM D1752, Type I, flexible grade.
 - .3 Standard cork: to ASTM D1752, Type II.

2.4 MIXES

- .1 Alternative 1 - Performance Method for specifying concrete: to meet Consultant performance criteria to CSA A23.1/A23.2.
 - .1 Ensure concrete supplier meets performance criteria as established below and provide verification of compliance as in Quality Control Plan.
 - .2 Provide concrete mix to meet following plastic state requirements:
 - .1 Workability: free of surface blemishes, loss of mortar, colour variations and segregation.
 - .3 Provide concrete mix to meet following hard state requirements:
 - .1 Durability and class of exposure: C-1
 - .2 Compressive strength at 28 age: 35 Mpa minimum.
 - .3 Intended application: footings, foundation, slab
 - .4 Aggregate size 19 mm maximum.
 - .4 Provide quality management plan to ensure verification of concrete quality to specified performance.
 - .5 Concrete supplier's certification: both batch plant and materials meet CSA A23.1 requirements.

Part 3 Execution

3.1 PREPARATION

- .1 Obtain Consultant's written approval before placing concrete.
 - .1 Provide 48 hours minimum notice prior to placing of concrete.
- .2 Place concrete reinforcing in accordance with Section 03 20 00 - Concrete Reinforcing.
- .3 During concreting operations:
 - .1 Development of cold joints not allowed.
 - .2 Ensure concrete delivery and handling facilitates placing with minimum of re-handling, and without damage to existing structure or Work.
- .4 Pumping of concrete is permitted only after approval of equipment and mix.

- .5 Ensure reinforcement and inserts are not disturbed during concrete placement.
- .6 Prior to placing of concrete obtain Consultant's approval of proposed method for protection of concrete during placing and curing in adverse weather.
- .7 Protect previous Work from staining.
- .8 Clean and remove stains prior to application for concrete finishes.
- .9 Maintain accurate records of poured concrete items to indicate date, location of pour, quality, air temperature and test samples taken.
- .10 In locations where new concrete is dowelled to existing work, drill holes in existing concrete.
 - .1 Place steel dowels and pack solidly with shrinkage compensating grout to anchor and hold dowels in positions as indicated.
- .11 Do not place load upon new concrete until authorized by Consultant.

3.2 INSTALLATION/APPLICATION

- .1 Do cast-in-place concrete work to CSA A23.1/A23.2.
- .2 Grout under base plates and machinery using procedures in accordance with manufacturer's recommendations which result in 100 % contact over grouted area.
- .3 Finishing and curing:
 - .1 Finish concrete to CSA A23.1/A23.2.
 - .2 Use procedures noted in CSA A23.1/A23.2 to remove excess bleed water. Ensure surface is not damaged.
 - .3 Use curing compounds compatible with applied finish on concrete surfaces. Provide written declaration that compounds used are compatible.
 - .4 Finish concrete floor to CSA A23.1/A23.2.
 - .5 Provide screed finish unless otherwise indicated.
 - .6 Rub exposed sharp edges of concrete with carborundum to produce 3 mm minimum radius edges unless otherwise indicated.
- .4 Joint fillers:
 - .1 Furnish filler for each joint in single piece for depth and width required for joint, unless otherwise authorized by Consultant.
 - .2 When more than one piece is required for joint, fasten abutting ends and hold securely to shape by stapling or other positive fastening.
 - .3 Locate and form expansion joints as indicated.
 - .4 Install joint filler.
 - .5 Use 12 mm thick joint filler to separate slabs-on-grade from vertical surfaces and extend joint filler from bottom of slab to within 12 mm of finished slab surface unless indicated otherwise.

3.3 SURFACE TOLERANCE

- .1 Concrete tolerance to CSA A23.1.

3.4 FIELD QUALITY CONTROL

- .1 Site tests: conduct tests as follows in accordance with Section 01 45 00 - Quality Control and submit report as described in PART 1 - ACTION AND INFORMATIONAL SUBMITTALS.
 - .1 Concrete pours.
 - .2 Slump.
 - .3 Air content.
 - .4 Compressive strength at 7 and 28 days.
 - .5 Air and concrete temperature.
- .2 Inspection and testing of concrete and concrete materials will be carried out by testing laboratory.
 - .1 Ensure testing laboratory is certified to CSA A283.
- .3 Ensure test results are distributed for discussion prior to concrete pouring
- .4 Contractor will pay for costs of tests.
- .5 Additional test cylinders during cold weather concreting are required. Cure cylinders on job site under same conditions as concrete which they represent.
- .6 Non-Destructive Methods for Testing Concrete: to CSA A23.1/A23.2.
- .7 Inspection or testing by Consultant will not augment or replace Contractor quality control nor relieve Contractor of his contractual responsibility.

3.5 CLEANING

- .1 Clean in accordance with Section 01 74 11 - Cleaning.

END OF SECTION

ADDENDUM

Project Name: Pavilion Washroom Renovation **Addendum #:** AD-01
Project Number: 1193059 **Date:** February 5, 2021
Project Address: 200 Meadowvale Road **Client:** Toronto Zoo
Toronto, Ontario

The following information supplements and/or supersedes the bid documents issued for Tender on January 25, 2021.

This Addendum forms part of the contract documents and is to be read, interpreted, and coordinated with all other parts. The cost of all contained herein is to be included in the contract sum. The following revisions supersede the information contained in the original drawings and specifications issued for the above-named project to the extent referenced and shall become part thereof. Acknowledge receipt of this Addendum by inserting its number and date on the Tender Form. Failure to do so may subject bidder to disqualification.

Subject: Various Modifications

Description of Addendum

1. The Corian finish has been revised from "Earth" to "Canyon".
2. Refer to attached mechanical drawings for additional information.
3. Refer to attached electrical drawings for additional information.
4. The contractor shall provide a separate price line item for the supply and install of a floor based urinals in lieu of the base contract wall based urinals.
5. No painting inspections from a third party are required.
6. All doors are to remain but repaired and refinished and all hardware shall be replaced.

Issued By



Mark Faulds
Lead Designer



CLIENT:



WASHROOM PARTITION SPECIFICATION

MANUFACTURER: BOBRICK
 PRODUCT: DURA LINE
 MATERIAL: SOLID PHENOLIC
 COLOUR/FINISH: CELLO 0811 FH. FINAL COLOUR TO BE DECIDED BY THE ZOO
 HARDWARE: INSTITUTIONAL
 MOUNTING: CEILING HUNG
 DOORS: GAP-FREE CONCEALED HINGES
 THICKNESS: 19mm
 OPTIONS: OCCUPIED/UNOCCUPIED DOOR LOCK WITH UNLOCK FROM EXTERIOR (OCCUPANCY INDICATOR)

TAG	DESCRIPTION	MANUFACTURER	PRODUCT NUMBER	FINISH/COLOR	SIZE	SUPPLIER	PURCHASED BY	INSTALLED BY	NOTES
TL01	FLOOR TILE	CENTURA	54YPR	SAW CUT NOCE	8"x48"	CENTURA	GC	GC	
TL02	FLOOR TILE	OLYMPIA TILE	24RS	TIGER EYE	12"x12"	CENTURA	GC	GC	
TL03	WALL TILE	CENTURA	25848	COLOR MARKET - MACARON	9"x9"	CENTURA	GC	GC	INSTALL IN STAGGERED PATTERN 3" IS HORIZONTAL
TL04	WALL TILE	CENTURA	5281	FES - VERDE - GLOSSY	9"x9"	CENTURA	GC	GC	
TL05	SNAKE TILE	OLYMPIA TILE	MC MR SNO 10 HEX	SAND MATTE	10"	OLYMPIA TILE	GC	GC	
TL06	SNAKE TILE	OLYMPIA TILE	MC MR TPE 10 HEX	TALPE MATTE	10"	OLYMPIA TILE	GC	GC	
TL07	SNAKE TILE	OLYMPIA TILE	MC MR DKR 10 HEX	DARK MATTE	10"	OLYMPIA TILE	GC	GC	
PT01	CEILING PAINT	SHERWIN WILLIAMS	SW 6727	HOUSEPLANT	N/A	SHERWIN WILLIAMS	GC	GC	PROVIDE 1 COAT PRIMER 2 COATS FINISH
PT02	DUCTWORK PAINT	SHERWIN WILLIAMS	SW 6727	HOUSEPLANT	N/A	SHERWIN WILLIAMS	GC	GC	PROVIDE 1 COAT PRIMER 2 COATS FINISH
PT03	DOOR PAINT TYPE 1	SHERWIN WILLIAMS	SW 6718	COVERT GREEN	N/A	SHERWIN WILLIAMS	GC	GC	PROVIDE 1 COAT PRIMER 2 COATS FINISH
PT04	DOOR PAINT TYPE 2	SHERWIN WILLIAMS	SW 6720	PARADISE	N/A	SHERWIN WILLIAMS	GC	GC	PROVIDE 1 COAT GREY PRIMER 2 COATS FINISH
PT05	SERVICE DOOR PAINT	SHERWIN WILLIAMS	SW 6720	PARADISE	N/A	SHERWIN WILLIAMS	GC	GC	PROVIDE 1 COAT PRIMER 2 COATS FINISH

TAG	QUANTITY	DESCRIPTION	MANUFACTURER	PRODUCT NUMBER	PRODUCT	EQUIPMENT SCHEDULE	DIMENSIONS	FINISH	PURCHASED BY	INSTALLED BY	NOTES
EQ01	12	WATER CLOSET & BF WATER CLOSET			REFER TO MECHANICAL			GC	GC	GC	PROVIDE BACK REST FOR ACCESSIBLE WATER CLOSETS. REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
EQ02	5	URINAL			REFER TO MECHANICAL			GC	GC	GC	REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
EQ03	2	LAVATORY	SLOAN	N/A	REKRES/SMALL WOOD SINK		2250MM AS PER DRAWINGS	CORIAN - CANYON	OWNER	GC	INSTALL ALL SUPPLIES, BRACKETS, UNDERCOUNTER SINKS. REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
EQ04	9	FAUCET	SLOAN	EFX200	BASYS SENSOR ACTIVATED FAUCET		N/A	CHROME FINISH	OWNER	GC	REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
EQ04	9	DRYER	SLOAN	EDS10A	FOUR SPEED HAND DRYER		N/A	CHROME FINISH	OWNER	GC	REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
EQ04	9	SOAP DISPENSER	SLOAN	ESD050	TOUCH FREE SOAP DISPENSER		N/A	CHROME FINISH	OWNER	GC	REFER TO MECHANICAL FOR ADDITIONAL INFORMATION.
EQ08	2	SEAT GRAB BAR	BOBRICK	B-5888	90 DEGREE GRAB BAR		762.076mm, 32mm DIA	SATIN FINISH PEEDED	GC	GC	
EQ07	4	REAR GRAB BAR	BOBRICK	B-5889-24	STRAIGHT GRAB BAR		610mm LONG, 32mm DIA	SATIN FINISH PEEDED	GC	GC	
EQ08	1	NAPKIN DISPENSER	BOBRICK	B-4709-25	SURFACE MOUNTED NAPKIN DISPENSER		725x375x180mm	STAINLESS STEEL	GC	GC	
EQ09	12	SURFACE MOUNTED TOILET PAPER DISPENSER	BOBRICK	B-493	KUJOCH TOILET PAPER DISPENSER		180x230x84mm	STAINLESS STEEL	GC	GC	
EQ10	2	BF TOILET PAPER DISPENSER	BOBRICK	B-2890	SINGLE JUMBO ROLL TOILET TISSUE DISPENSER		N/A	STAINLESS STEEL	GC	GC	
EQ11	10	TOILET PAPER DISPENSER	BOBRICK	B-2892	TWIN JUMBO ROLL TOILET TISSUE DISPENSER		N/A	STAINLESS STEEL	GC	GC	
EQ12	2	CHANGE TABLE	KOALA CARE	KRT10SSVM	84"X70" CHANGE TABLE		862x90x102mm	STAINLESS STEEL	GC	GC	
EQ13	2	KIDS PULL DOWN STEP	N/A	STEP N WASH		N/A	STAINLESS STEEL	OWNER	GC	GC	RE-USE AND RE-INSTALL EXISTING
EQ14	8	SHELVING	CORIAN	N/A	CORIAN SOLID SEAR		811mmX300mm	CORIAN - CANYON	GC	GC	
EQ15	2	MIRROR	N/A	N/A	SOLID PICE MIRROR			CORIAN - CANYON	GC	GC	WITH 4" WIDE WOOD BORDER

NOTE:
 1. CONTRACTOR TO BE AWARE THAT THE SINK ALONG WITH THE SKIRT IS PURCHASED BY THE ZOO AND TO BE INSTALLED BY CONTRACTOR.

DOOR HARDWARE SPECIFICATIONS:

INTERIOR DOORS (D04, D04):

DOORS: FLEMING "H SERIES DOOR" (16 GAUGE CONTINUOUS WELDED SEAMS)
 FRAMES: 16 GAUGE FRAME c/w PRE-DILLED AND COUNTERSUNK ATTACHMENT HOLES
 HINGES: PRE DOOR AND FRAME FOR 4-1/2" x 4-1/2" HAGER NRP SS HEAVY DUTY BUTT HINGES (BB1199) OR STANLEY HINGES (FBB 199-NRP 32D), THREE PER DOOR
 KICKPLATE: DON-JO J 301 S S
 PUSH PLATE: DON-JO J 301 (S.S. PUSH PLATE)
 PULL HANDLE: FAUX TREE BRANCH
 ADD: HORTON 4100 SERIES c/w 6-1/4" DIAMETER PLATE, SURFACE MOUNTED AND WIRED
 ELECTRIC STRIKE: TBD

INTERIOR DOORS (D05):

DOORS: FLEMING "H SERIES DOOR" (16 GAUGE CONTINUOUS WELDED SEAMS)
 FRAMES: 16 GAUGE FRAME c/w PRE-DILLED AND COUNTERSUNK ATTACHMENT HOLES
 HINGES: PRE DOOR AND FRAME FOR 4-1/2" x 4-1/2" HAGER NRP SS HEAVY DUTY BUTT HINGES (BB1199) OR STANLEY HINGES (FBB 199-NRP 32D), THREE PER DOOR
 KICKPLATE: DON-JO J 301 S S
 DOOR SWEEP: K.N.CROWDER #W-245
 LEVER SET: 2-1/8" HOLE FOR 93 K SERIES H.D. STANLEY BEST "LEVER SET" WITH HOUSING FOR "BEST 7-FINIC-CORE", #15 LEVER WITH "C" ROSE, 626 FINISH.

EXTERIOR DOORS (D01, D03):

DOORS: FLEMING "H SERIES DOOR" (16 GAUGE CONTINUOUS WELDED SEAMS)
 FRAMES: 16 GAUGE FRAME c/w PRE-DILLED AND COUNTERSUNK ATTACHMENT HOLES
 HINGES: PRE DOOR AND FRAME FOR 4-1/2" x 4-1/2" HAGER NRP SS HEAVY DUTY BUTT HINGES (BB1199) OR STANLEY HINGES (FBB 199-NRP 32D), THREE PER DOOR
 WEATHER STRIPPING: K.N.CROWDER #13
 THRESHOLD: K.N.CROWDER #CT-11
 DOOR SWEEP: K.N.CROWDER #W-245
 VENT. CAPS: TOP OF DOOR RAIN CAP
 LOCKS: 2-3/4" BACKSET HOLE PRE DRILLED FOR STANLEY BEST SERIES LOCKS
 KICKPLATE: DON-JO J 301 S S
 PUSH PLATE: DON-JO J 301 (S.S. PUSH PLATE)
 PULL HANDLE: FAUX TREE BRANCH
 ADD: HORTON 4100 SERIES c/w 6-1/4" DIAMETER PLATE, SURFACE MOUNTED AND WIRED
 DEADBOLT: TUBULAR DEADBOLT, BEST 831 7S-STK626, 1200mm HIGH ON CENTRE
 ELECTRIC STRIKE: TBD

DOOR SCHEDULE										COMMENTS
ROOM NAME	DOOR #	WIDTH	HEIGHT	THICKNESS	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	FIRE RATING	
MALE VESTIBULE	D01	915	2134	50	HM	PT	HM	PT	N/A	EXISTING DOOR AND FRAME TO BE REPAIRED AND REFINISHED
FEMALE VESTIBULE	D02	915	2134	50	HM	PT	N/A	PT	N/A	EXISTING DOOR AND FRAME TO BE REPAIRED AND REFINISHED
MALE WASHROOM	D03	915	2134	50	HM	PT	N/A	PT	N/A	EXISTING DOOR AND FRAME TO BE REPAIRED AND REFINISHED
FEMALE VESTIBULE	D04	915	2134	50	HM	PT	N/A	PT	N/A	EXISTING DOOR AND FRAME TO BE REPAIRED AND REFINISHED
MALE WASHROOM	D05	622	2134	50	HM	PT	HM	PT	N/A	EXISTING DOOR AND FRAME TO BE REPAIRED AND REFINISHED

DO NOT SCALE OFF DRAWINGS. CONTRACTOR TO SITE VERIFY ALL DIMENSIONS AND REPORT ANY DISCREPANCIES TO ARCHITECT. DRAWINGS ARE THE PROPERTY OF THE ARCHITECT AND ARE NOT TO BE REPRODUCED OR DISTRIBUTED WITHOUT WRITTEN PERMISSION FROM ARCHITECT. DRAWINGS ARE NOT TO BE USED FOR ANY PURPOSE OTHER THAN THE LATEST ISSUE SHOWN BELOW.

NO.	DESCRIPTION	DATE
01	50% REVIEW	19/06/24
02	TENDER REVIEW	19/10/24
03	TENDER	19/10/29
04	TENDER	20/9/23
05	ADDENDUM #01	20/04/22
06	ADDENDUM #02	20/04/08
07	ADDENDUM #03	20/04/14
08	CLARIFICATION	20/04/21
09	TENDER REVIEW	21/01/08
10	TENDER	21/01/25
11	ADDENDUM #01	21/02/02

TORONTO ZOO
 361A OLD FINCH AVE
 TORONTO, ONTARIO, M1B 5K7
 WASHROOM UPGRADES - AFRICAN PAV.
SCHEDULES

Project number: 2019-06
 Date: 2021-02-02
 Drawn by: M FAILDUS
 Checked by: J HORWATH

A002

Scale:

EXISTING & DEMOLITION KEY NOTES

- 1. DEMOLISH LAVATORY C/W PANELS, ISOLATION VALVES & ALL ACCESSORIES; DEMOLISH SANITARY PIPE IN WALL ON TO MAIN & CAP; MODIFY SERVICE (DCW=DOWN-VENT) TO RECEIVE NEW FIXTURE.
2. DEMOLISH EXISTING FLOOR DRAIN & CLEAN OUT.
3. DEMOLISH FLOOR/WALL MOUNTED WATER CLOSET (WC-1, WC-2) AS PER SCHEDULE IN SIMILAR LOCATION; RECONNECT SERVICES (DCW=DOWN-VENT).

MODIFICATION KEY NOTES

- 1. PROVIDE NEW 1000 (APR) SANITARY BELOW SLAB, COORDINATE SLAB/FLOOR REPAIR WITH ARCH. DRAWINGS.
2. DEMOLISH FLOOR/WALL MOUNTED WATER CLOSET (WC-2, WC-4) AS PER SCHEDULE; PROVIDE 1000 SAN. DRAIN ON TO 1000 NEW SANITARY MAIN; RECONNECT SERVICES (DCW=DOWN-VENT).
3. PROVIDE THERMOSTATIC MIXING VALVE (TMV) IN SAME LOCATION AS PER SCHEDULE; RECONNECT SERVICES (DCW=DHW+TEMPERED WATER).

EXISTING & DEMOLITION KEY NOTES

- 1. DEMOLISH SUPPLY/RETURN/TRANSFER GRILLE.
2. DEMOLISH ELECTRIC HEATER C/W WIRING.
3. DEMOLISH CEILING HUNG MAKE-UP AIR UNIT C/W CONTROLS, COMBUSTION AIR INTAKE & FUEL VENT.
4. DEMOLISH THERMOSTAT AT H/L C/W WIRING.

MODIFICATION KEY NOTES

- 1. PROVIDE THERMOSTAT C/W WIRING AT ACCESSIBLE HEIGHT.
2. PROVIDE 0300 EXHAUST DUCT UP THROUGH ROOF AND TRANSITION TO 0300. TERMINATE WITH GOSSE NICK AT MIN. 3048mm/DIFF. AWAY FROM ANY FRESH AIR INTAKE INCLUDING OPERABLE WINDOWS.
3. PROVIDE RETURN TYPE EXHAUST FAN AT H/L TIGHT TO SLAB. MODIFY EXISTING EXHAUST DUCTWORK TO ALLOW FOR NEW (RE) INSTALLATION. CONTRACTOR SHALL RELOCATE EXISTING FINE AREA IF REQUIRED, SITE VERIFY SPACE AVAILABILITY AND UPTO ORIENTATION PRIOR TO PURCHASE.

CONTRACTOR SHALL REFERENCE "TENDER" COLUMN IN SCHEDULES TO IDENTIFY EQUIPMENT INCLUDED IN THIS TENDER

DOMESTIC HOT WATER TANK SCHEDULE

Table with columns: TAG, TENDER, MANUF., MODEL, QUANTITY, DRY WEIGHT (KG), CAPACITY (LTS), RECOVERY TO 100% (LPH), INPUT (KW), ELECTRICAL (V/A/PH/Hz), HEIGHT (MM/LN), DIAMETER (MM/LN), NOTES

MAKE UP AIR UNIT SCHEDULE

Table with columns: TAG, TENDER, MANUF., MODEL, SUPPLY FAN, GAS HEATING, WEIGHT (KG), DIMENSION (L x W x H (mm)), FILTER, ELECTRICAL SERVICE, NOTES

EXHAUST FAN SCHEDULE

Table with columns: TAG, TENDER, MANUF., MODEL, QTY, WEIGHT (KG), WHEEL DIA. (mm), FAN PERFORMANCE (MIN. FLOW (L/S), ESP (kPa), DIMENSION (W x H x D (mm)), MOTOR (RPM, WATTS), VOLTAGE (V/A/PH/Hz), FLA (A), NOTES

SCENT AIR SYSTEM

Table with columns: TAG, TENDER, MANUF., MODEL, QTY, WEIGHT (KG), COVERAGE (SQ-M), DISPERSION, DIMENSION (L x W x H (mm)), ELECTRICAL, NOTES

EXPANSION TANK SCHEDULE

Table with columns: TAG, TENDER, MANUF., MODEL, SYSTEM, QTY, DRY WEIGHT (KG), TANK VOLUME (L), ACCEPTANCE VOLUME (L), DIMENSION (ØD x H (mm)), NOTES

HEATER SCHEDULE

Table with columns: TAG, TENDER, TYPE, MANUFACTURER/ MODEL, CAPACITY (KW), DIMENSION (W x H x D (mm)), QTY, INSTALLATION, VOLTAGE (V/A/PH/Hz), WEIGHT (KG), NOTES

REFERENCE NOTES: 1. HEATER SHALL BE SURFACE MOUNTED; 2. HEATER SHALL BE CEILING RING; 3. C/W SURFACE CABINET; 4. C/W BUILT IN THERMOSTAT; 5. CONTRACTOR SHALL COORDINATE COLOUR WITH ARCH. PRIOR TO PURCHASE.

DRAWING LIST SCHEDULE

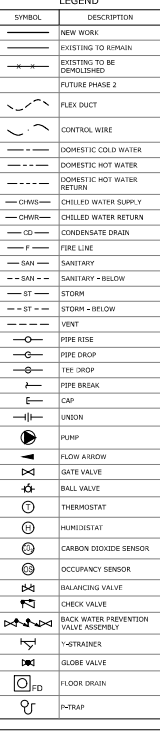
Table with columns: DWG NO., TENDER, MECHANICAL SPECIFICATIONS, DESCRIPTION

PLUMBING FIXTURE SCHEDULE

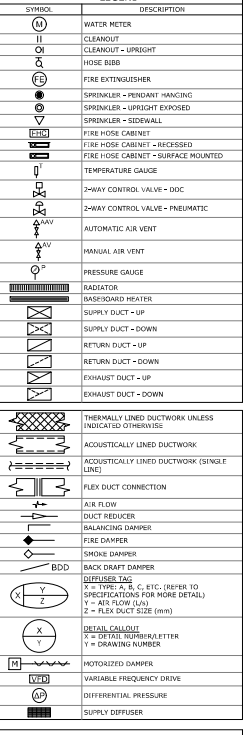
Table with columns: TAG, TENDER, PRODUCTS, DESCRIPTION, ACCESSORIES

NOTES: CONTRACTOR SHALL COORDINATE WITH MANUFACTURER TO CONFIRM FLUSHMETER COMPATIBILITY WITH PLUMBING FIXTURE PRIOR TO PURCHASE.

LEGEND



LEGEND

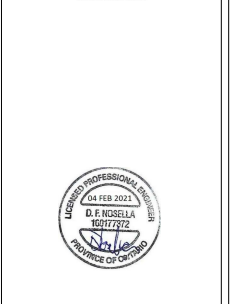


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SUB-CONSULTANTS: telstorm

HCC ENGINEERING DESIGN AND TECHNOLOGY SERVICES GROUP INC. PROFESSIONAL ENGINEER



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Table with columns: NO., DESCRIPTION, DATE

MECHANICAL DETAILS, LEGEND AND DRAWING LIST. Project number: 18153, Date: 05.03.2019, Drawn by: SN, Checked by: DV, M102, Scale: -

CLIENT:



SUB-CONSULTANTS:


telstorm
entrust
 ENGINEERING INC. E
 HCC ENGINEERING
DESIGN AND TECHNOLOGY BETTER TOGETHER
 WISE ENGINEERING UNITED



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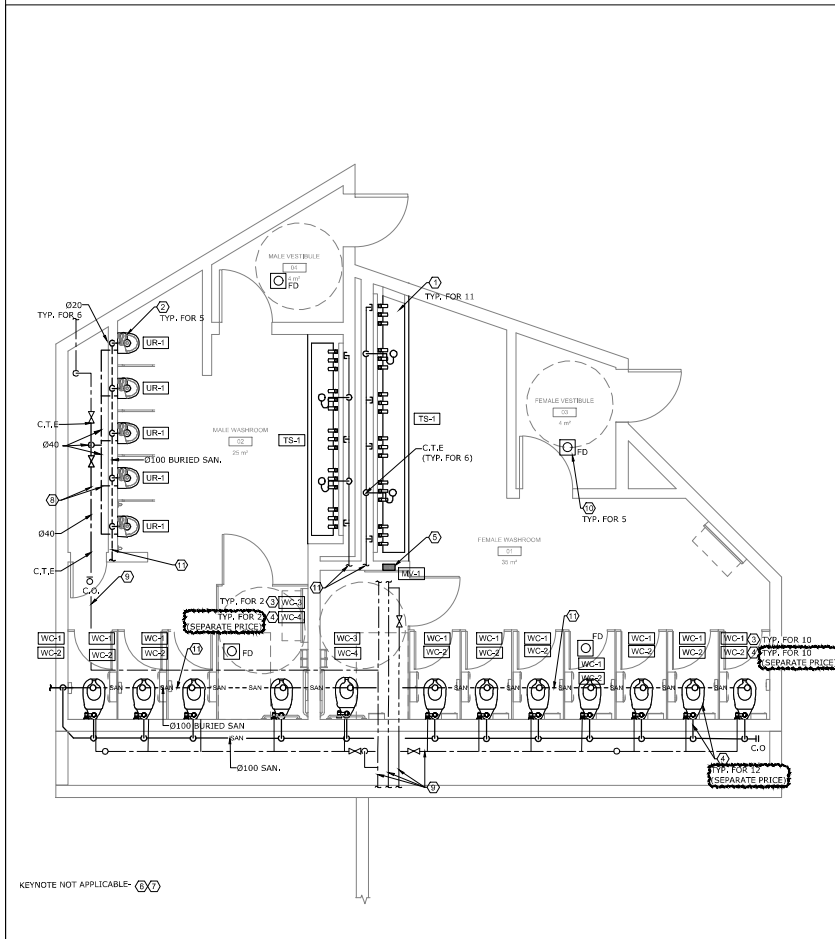
NO.	DESCRIPTION	DATE
1	ISSUED FOR REVIEW	NOV. 05, 2019
2	ISSUED FOR TENDER	MAR. 12, 2020
3	ISSUED FOR ADDENDUM #M1	APR. 08, 2020
4	RE-ISSUED FOR TENDER (AFRICAN PAV) I	JAN. 25, 2021
5	RE-ISSUED FOR ADDENDUM #M1	FEB. 04, 2021

**AFRICAN PAVILION
PLUMBING AND HVAC
MODIFICATION**

Project number: 18153
 Date: 05.03.2019
 Drawn by: SV
 Checked by: DN

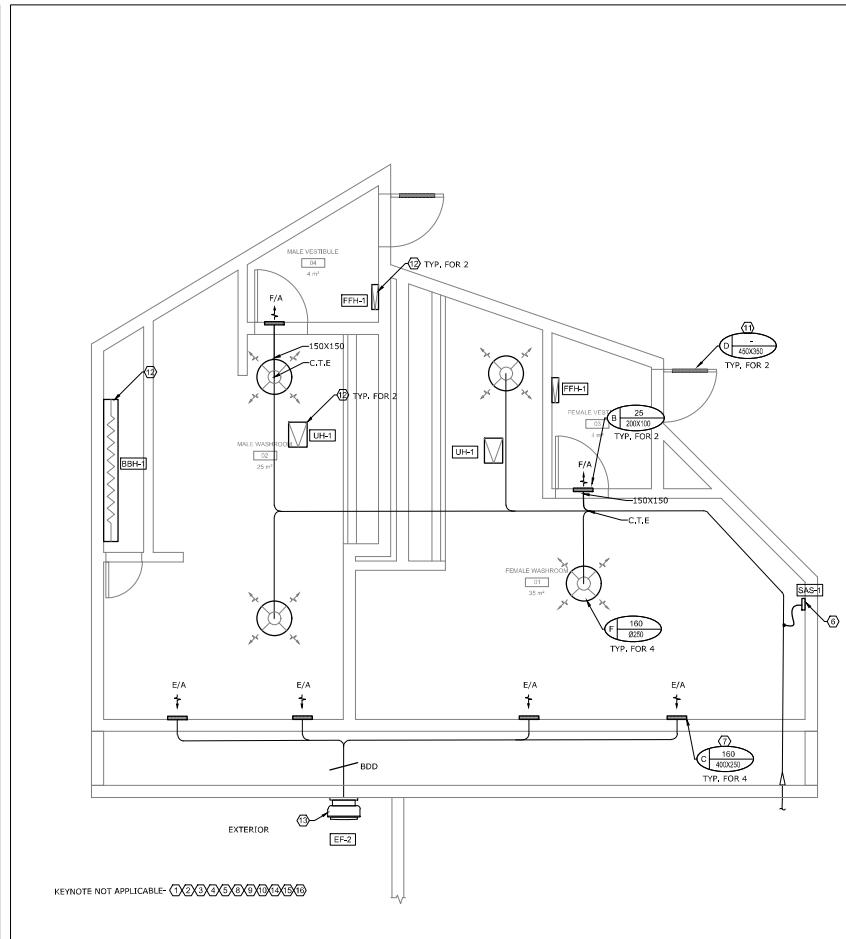
M203

Scale: AS SHOWN



KEYNOTE NOT APPLICABLE- (B, C, 7)

1 PLUMBING MODIFICATION
SCALE: 1:40



KEYNOTE NOT APPLICABLE- (A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z)

2 HVAC MODIFICATION
SCALE: 1:40

HCC ENGINEERING LIMITED

Design and Technology Services Group

40 Eglinton Avenue East

Suite 600

Toronto, Ontario

M4P 3A2

Tel: (416) 932-2423

Tender Addendum #E-01

Project:

WC Upgrades – African Pavilion

Toronto Zoo

361A Old Finch Ave

Toronto, Ontario

HCC Engineering Project No.:

19240

BCIN# 28954

Date:

February 1, 2021

1. General

1. This tender addendum is an integral part of the Specifications and Drawings and shall form an integral part of the Contract Documents.

2. Drawings

1. Drawing No. E-2.0 (Reissued with Addendum)

2. Drawing No. E-7.1 (Reissued with Addendum)

End of Tender Addendum #E-01

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CLIENT: **toronto zoo**
 SUB-CONSULTANTS:
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No.	Description	Date
1	ISSUED FOR CLIENT REVIEW	04OCT19
2	ISSUED FOR TENDER	03APR20
3	ISSUED FOR ADDENDUM E-02	15APR20
4	ISSUED FOR TENDER REVIEW	08JAN21
5	ISSUED FOR TENDER	25JAN21
6	ISSUED FOR ADDENDUM E-41	03FEB21

TORONTO ZOO
 361A OLD FINCH AVE
 TORONTO, ONTARIO, M1B 5K7
 WC UPGRADES - AFRICAN PAVILION

ELECTRICAL SINGLE LINE DIAGRAM

Project number 19240
 Date SEPTEMBER, 2019
 Drawn by KZ
 Checked by HDC

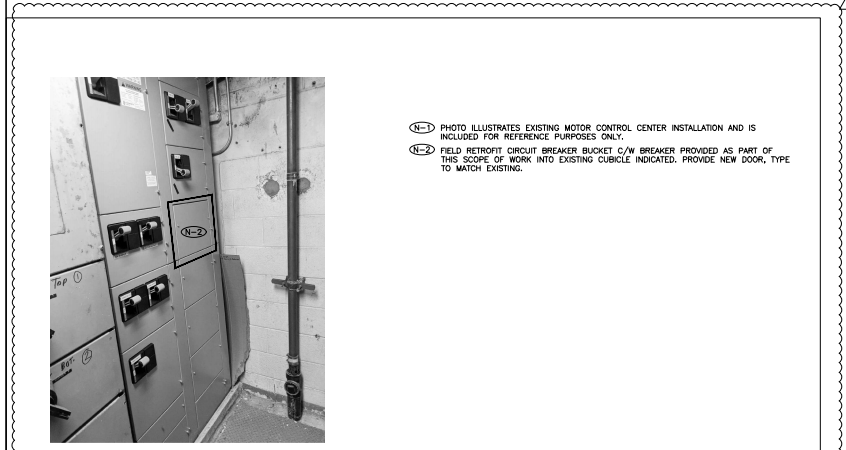
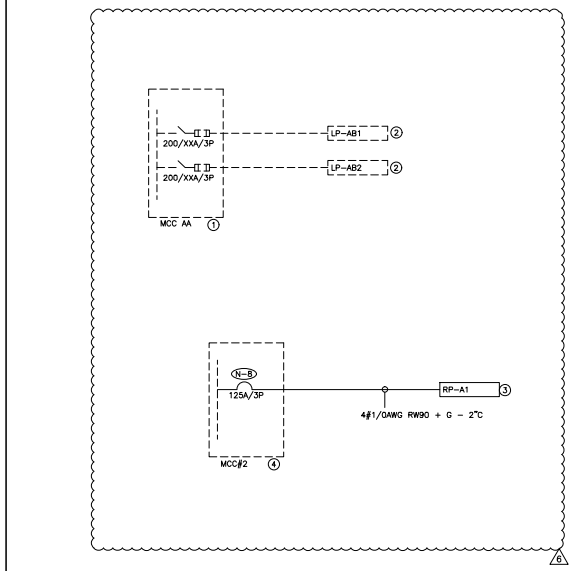
E-7.1
 Scale: NTS

- (N-1) RISER IS DIAGRAMMATIC ONLY. REFER TO FLOOR PLANS FOR DEVICE QUANTITY AND LOCATIONS.
- (N-2) PROVIDE FIRE RATED PLYWOOD BACKBOARDS FOR ALL ELECTRICAL DISTRIBUTION EQUIPMENT PROVIDED AS PART OF THIS CONTRACT AND FOR ALL PREPURCHASED / PREQUALIFIED DISTRIBUTION. PAINT BACKBOARDS WITH FIRE RETARDANT PAINT (COLOUR AS DIRECTED ON SITE BY PROJECT MANAGER). FIRE RATED STAMP MUST BE ON ALL PIECES PROVIDED AND MUST BE VISIBLE WHEN INSTALLED. DO NOT PAINT OVER STAMP.
- (N-3) ALL INDOOR DISTRIBUTION PROVIDED AS PART OF THIS SCOPE OF WORK MUST BE TYPE 2 ENCLOSURE, UNLESS SPECIFICALLY NOTED OTHERWISE. PROVIDE COMPRESSION FITTINGS FOR SERVICES ENTERING DISTRIBUTION.
- (N-4) PROVIDE DEDICATED CORE DRILLED WALL AND FLOOR PENETRATIONS ON EVERY FLOOR. EXACT LOCATION OF ALL CORE DRILLS TO BE DETERMINED BY X-RAY RESULTS. ALL X-RAYS MUST BE REVIEWED AND APPROVED BY LANDLORD PRIOR TO CORE DRILLING.
- (N-5) PROVIDE TEMPORARY POWER AND LIGHTING THROUGHOUT PROJECT TO ACCOMMODATE REQUIREMENTS OF ALL TRADES. REQUIREMENTS INCLUDE PROVIDING EXTENSION CORDS, EXTENSION LIGHTING AND EQUIPMENT REQUIRED FOR THE WORK OF ALL TRADES. ALL COSTS RELATED TO THIS WORK SHALL BE INCLUDED IN THE BASE BID PRICE.
- (N-6) ROUTE ALL CONDUIT SYSTEMS AROUND EXISTING DUCT WORK, BEAMS, NEW DUCT WORK AND PIPING AS REQUIRED TO ACCOMMODATE CONDUIT SYSTEM INSTALLATION. REFER TO MECHANICAL DRAWINGS AND DESIGNER DRAWINGS FOR ADDITIONAL DETAILS.
- (N-7) ALL BREAKERS REQUIRED TO COMPLETE ALL SCOPES OF WORK TO BE NEW. DO NOT REUSE EXISTING BREAKERS.
- (N-8) PROVIDE NEW CIRCUIT BREAKER BUCKET C/W BREAKER INDICATED. PROVIDE REPLACEMENT PARTS, DOOR, MOUNTING HARDWARE, CONN KITS, FILLER PLATES, PRE-FABBED MCC BUS LINKS, ETC., TO ACCOMMODATE INSTALLATION AND FOR MODIFYING EXISTING PANEL BUS. PROVIDE LUGS TO ACCOMMODATE WIRE SIZE INDICATED. PROVIDE THE SERVICE OF Eaton's Field Services Group or Equivalent CSA APPROVED MANUFACTURER OF ELECTRICAL POWER DISTRIBUTION EQUIPMENT TO EXTEND, REWORK, MODIFY AND RECERTIFY EXISTING PANEL BUS AS REQUIRED TO FACILITATE INSTALLATION OF BREAKER BUCKET C/W BREAKER PROVIDED AS PART OF THIS SCOPE OF WORK. REFER TO DETAIL NO. 1 ON DRAWING E-7.1 FOR ADDITIONAL REQUIREMENTS.

- 1 EXISTING MOTOR CONTROL CENTER - 120/208V/3PH/4W/SIEMENS MODEL 8P002 MOTOR CONTROL CENTRE/100KA RMS
- 2 EXISTING RECEPTACLE PANEL - 120/208V/3PH/4W/125A MAINS/40CCT/FEDERAL PACIFIC
- 3 RECEPTACLE PANEL - 120/208V/3PH/4W/125A MCB/COPPER @0/0MCHT 20W/BASIS OF DESIGN SIEMENS P2 OR SCHNEIDER SO D NQ/10KA RMS SERIES RATED/RECESSED TRIM FACTORY PAINTED CUSTOM COLOUR (MATCH TO PAINT GHP TO BE PROVIDED BY INTERIOR ARCHITECT DURING CONSTRUCTION)
- 4 EXISTING MOTOR CONTROL CENTER - 120/208V/3PH/4W/EATON CUTLER-HAMMER MOTOR CONTROL CENTRE/65KA RMS

- - - - - DENOTES NEW PROVIDED BY ELECTRICAL CONTRACTOR
 - - - - - DENOTES EXISTING TO REMAIN
 x - x - x - x - x DENOTES EXISTING TO BE REMOVED BY ELECTRICAL CONTRACTOR

ELECTRICAL CONTRACTOR TO PREPARE A PRELIMINARY ZERO FEEDER LENGTH COORDINATION STUDY PRIOR TO ORDERING DISTRIBUTION. SUBMIT TO CONSULTANT FOR REVIEW AND APPROVAL.



1 EXISTING MOTOR CONTROL CENTER 'MCC#2' INSTALLATION PHOTO
 SCALE: NTS
 E-7.1